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Jun 11, 2000

DERWENT-ACC-NO: 1998-242664  
 DERWENT-WEEK: 200108  
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TITLE: Preparation of conjugated linoleic acid with reduced toxicity - comprises alkali isomerisation of linoleic acid with propylene glycol as solvent, used in food e.g. muscle-enhancing agents

INVENTOR: IWATA, T; KAMEGAI, T ; KASAI, M ; SATO, Y ; WATANABE, K

PATENT-ASSIGNEE:

ASSIGNEE	CODE
RINORU OIL MILLS CO LTD	RINON
RINORU YUSHI KK	RINON

PRIORITY-DATA: 1996JP-0288094 (October 30, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
TW 393463 A	June 11, 2000	N/A	000	C07C051/353
EP 839897 A1	May 6, 1998	E	007	C11C003/14
NO 9704882 A	May 4, 1998	N/A	000	C11C003/00
AU 9742784 A	May 7, 1998	N/A	000	C07C057/12
JP 10130199 A	May 19, 1998	N/A	004	C07C057/12
CA 2219601 A	April 30, 1998	N/A	000	C07C057/12
KR 98033256 A	July 25, 1998	N/A	000	C07C057/03
US 5986116 A	November 16, 1999	N/A	000	C07B035/08
JP 3017108 B2	March 6, 2000	N/A	004	C07C057/12
AU 722105 B	July 20, 2000	N/A	000	C07C057/12
EP 839897 B1	January 31, 2001	E	000	C11C003/14

DESIGNATED-STATES: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO  
 SE SI DE FR GB IT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
TW 393463A	October 27, 1997	1997TW-0115866	N/A
EP 839897A1	October 23, 1997	1997EP-0118467	N/A
NO 9704882A	October 23, 1997	1997NO-0004882	N/A
AU 9742784A	October 23, 1997	1997AU-0042784	N/A
JP 10130199A	October 30, 1996	1996JP-0288094	N/A
CA 2219601A	October 29, 1997	1997CA-2219601	N/A
KR 98033256A	October 29, 1997	1997KR-0055819	N/A
US 5986116A	October 24, 1997	1997US-0957774	N/A
JP 3017108B2	October 30, 1996	1996JP-0288094	N/A
JP 3017108B2		JP 10130199	Previous Publ.
AU 722105B	October 23, 1997	1997AU-0042784	N/A
AU 722105B		AU 9742784	Previous Publ.
EP 839897B1	October 23, 1997	1997EP-0118467	N/A

INT-CL (IPC): C07B 35/08; C07C 27/02; C07C 51/353; C07C 57/03; C07C 57/12; C11C 1/04; C11C 3/00; C11C 3/14

ABSTRACTED-PUB-NO: EP 839897A  
BASIC-ABSTRACT:

Preparation of conjugated linoleic acid (I) comprises alkali isomerisation of a fat or oil (II) containing linoleic acid (III) in an alkali-propylene glycol solution.

USE - (I) is used in foods e.g. muscle-enhancing agents and nutrition-replenishing agents and as additives for rubbers and insulating materials for IC.

ADVANTAGE - Using propylene glycol as the solvent, instead of ethylene glycol as in prior art processes, gives higher yields of (I) and gives (I) which are much less coloured. The reduced toxicity of the solvent allows (I) to be used in foods.

ABSTRACTED-PUB-NO:

EP 839897B  
EQUIVALENT-ABSTRACTS:

Preparation of conjugated linoleic acid (I) comprises alkali isomerisation of a fat or oil (II) containing linoleic acid (III) in an alkali-propylene glycol solution.

USE - (I) is used in foods e.g. muscle-enhancing agents and nutrition-replenishing agents and as additives for rubbers and insulating materials for IC.

ADVANTAGE - Using propylene glycol as the solvent, instead of ethylene glycol as in prior art processes, gives higher yields of (I) and gives (I) which are much less coloured. The reduced toxicity of the solvent allows (I) to be used in foods.

US 5986116A

Preparation of conjugated linoleic acid (I) comprises alkali isomerisation of a fat or oil (II) containing linoleic acid (III) in an alkali-propylene glycol solution.

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CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS: PREPARATION CONJUGATE LINOLEIC ACID REDUCE TOXIC COMPRISE ALKALI  
ISOMER LINOLEIC ACID PROPYLENE GLYCOL SOLVENT FOOD MUSCLE ENHANCE AGENT

DERWENT-CLASS: A60 B05 D13 D23 E17

CPI-CODES: A08-M03B; A12-W09; B04-B01C1; B10-C04E; B10-E04C; D03-H01T2; D10-B04;  
E10-C04H;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*  
Fragmentation Code  
M423 M720 M903 N480 N513 V780

Chemical Indexing M2 \*02\*  
Fragmentation Code  
H7 H722 J0 J011 J1 J171 M225 M231 M262 M281  
M320 M416 M720 M903 M904 M910 N480 N513  
Specific Compounds  
00206P  
Registry Numbers  
0206P

Chemical Indexing M2 \*03\*  
Fragmentation Code  
H4 H402 H482 H8 M280 M313 M321 M331 M342 M383  
M391 M416 M620 M720 M903 M904 M910 N480 N513  
Specific Compounds  
00137P  
Registry Numbers  
0137P

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0137P; 0206P

#### ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; H0124\*R Polymer Index [1.2] 018 ; ND00 ; ND03 ; ND04 Polymer  
Index [1.3] 018 ; R01068 D01 D11 D10 D50 D61 D81 F27 F26 Na 1A ; C999 C000\*R ; C999  
C260 Polymer Index [1.4] 018 ; R01512 D00 D67 F21 H\* K\* 1A O\* 6A ; C999 C000\*R ; C999  
C260 Polymer Index [1.5] 018 ; D01 D12 D10 D54 D51 D56 D59 D60 D93 F36 F35 ; A999  
A340\*R ; A999 A759 ; B9999 B4488 B4466 ; L9999 L2346

SECONDARY-ACC-NO:  
CPI Secondary Accession Numbers: C1998-075841